Order No. ITD1412904GE

Technical Guide

Model No. TH-32A400G/K/T/X/V
TH-32A405D
TH-32A408K
TH-32A409K
TH-32A410D/G/K/M/X/V

Hints for Board Repair
(32inch, 1 board model)

Ver. 1.0

Panasonic

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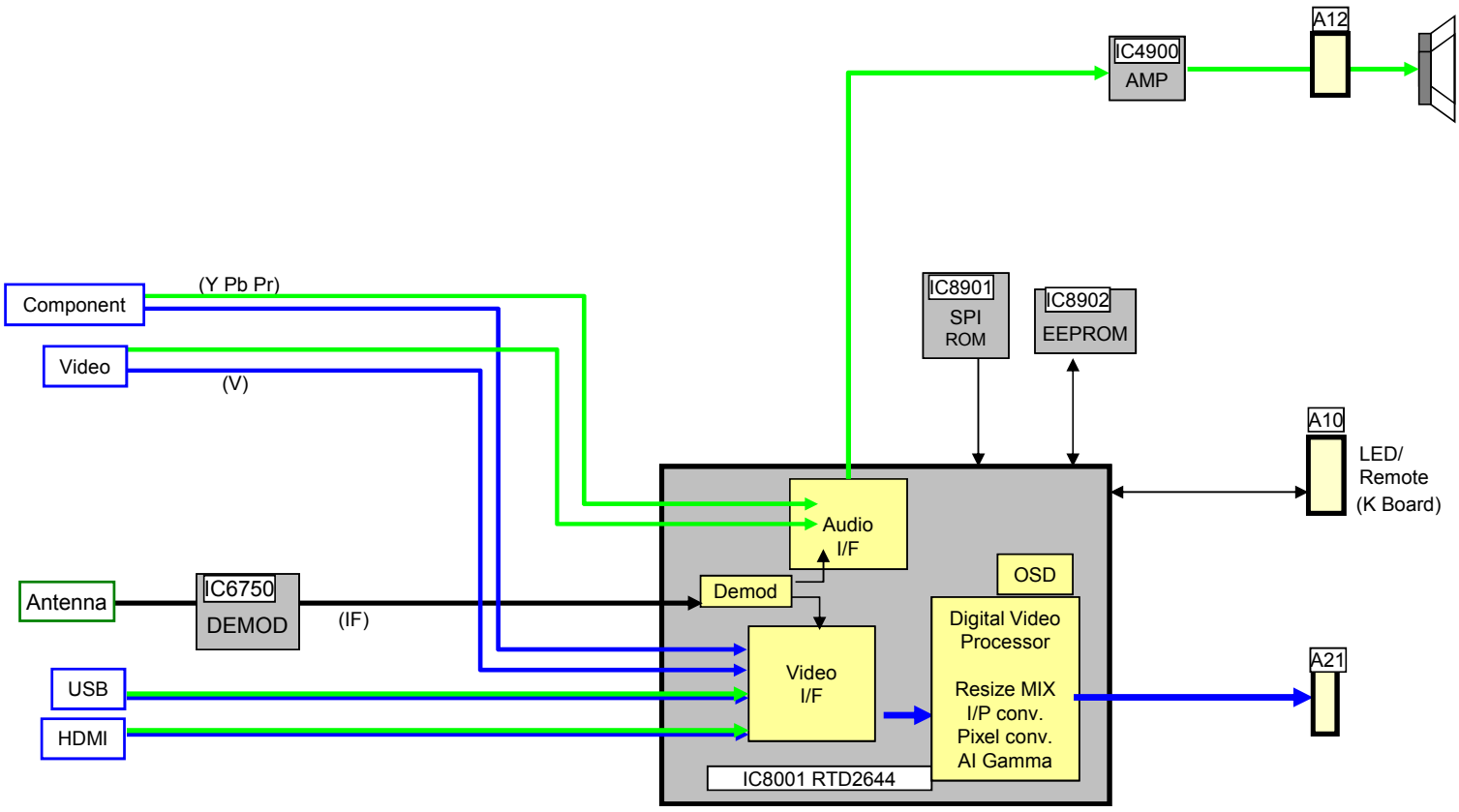
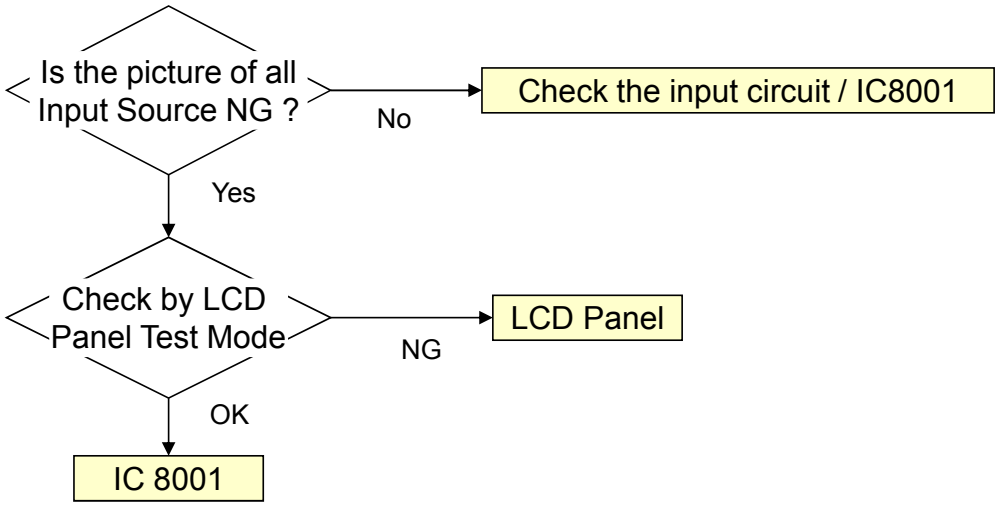
Signal Flow

(TNP4G573**)



Troubleshoot of Picture Problem



<LCD Panel Test Mode> :When abnormal picture is displayed, troubleshoot by the test pattern in LCD module.

If the picture is no problem, A board must be defective.

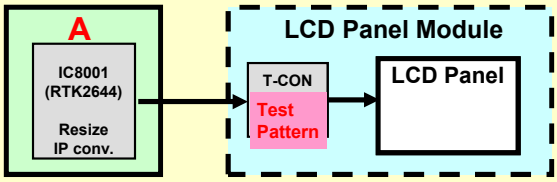
If the picture is also abnormal, LCD panel module must be defective.

How to enter :

While pressing "volume(-)" button of the TV unit,
press "option" button of the remote control 3 times within 2 seconds.

How to exit :

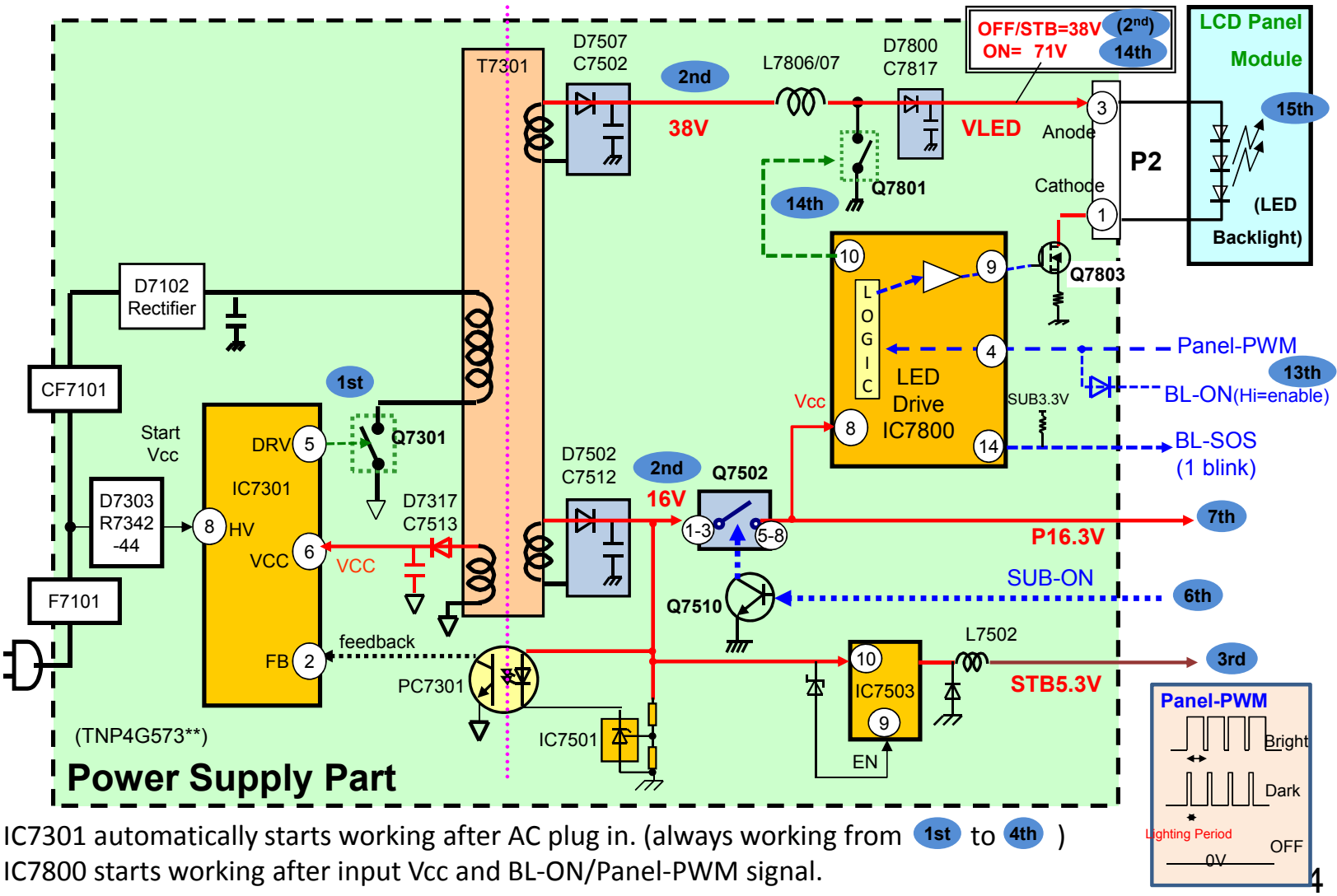
Disconnect AC plug



#) The test pattern is created by the circuit in LCD Panel Module(T-CON board).

Power Supply Distribution (1/2)

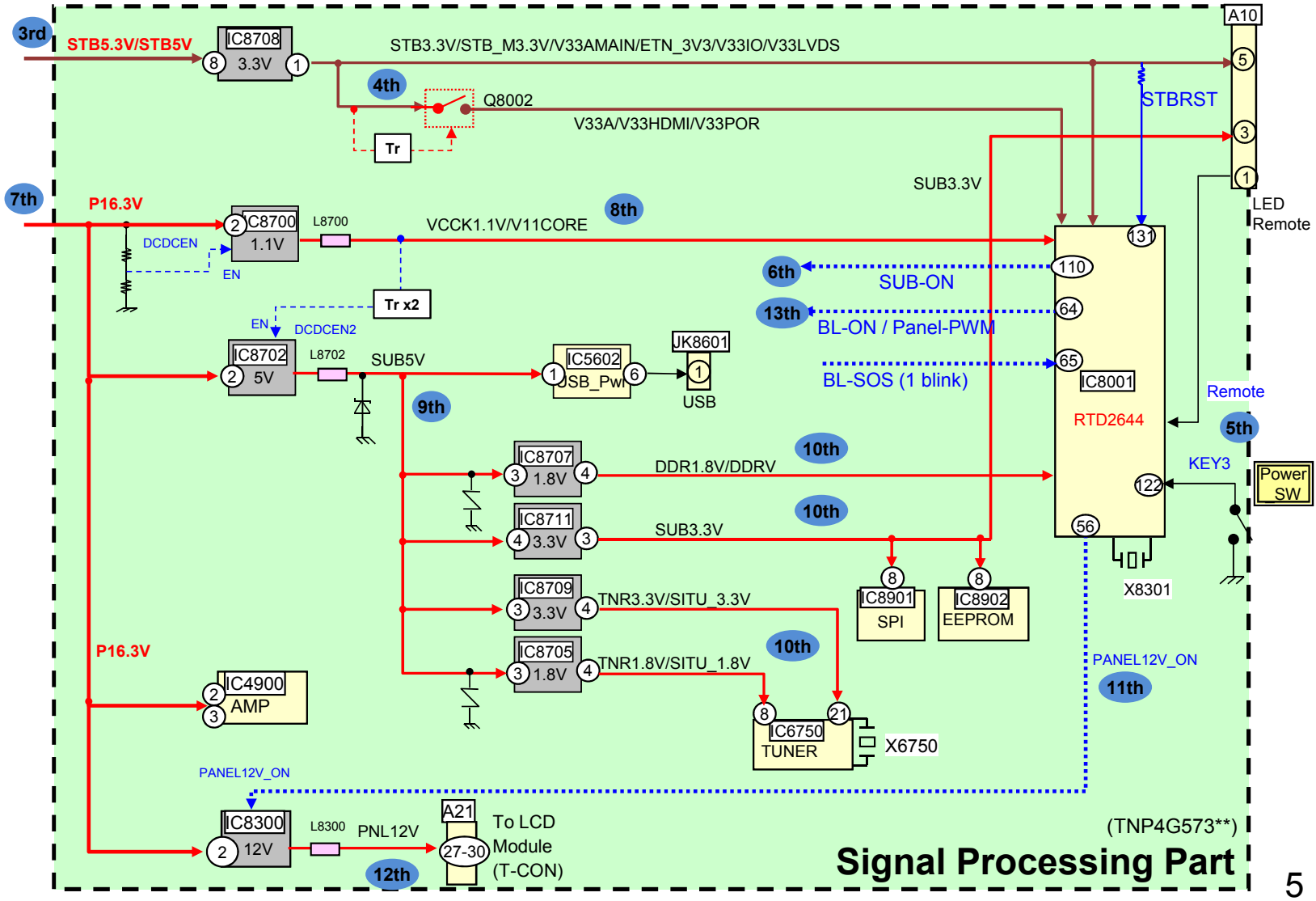
The power on sequence is describe by the number of the symbol. (1st - 15th)



IC7301 automatically starts working after AC plug in. (always working from 1st to 4th)

IC7800 starts working after input Vcc and BL-ON/Panel-PWM signal.

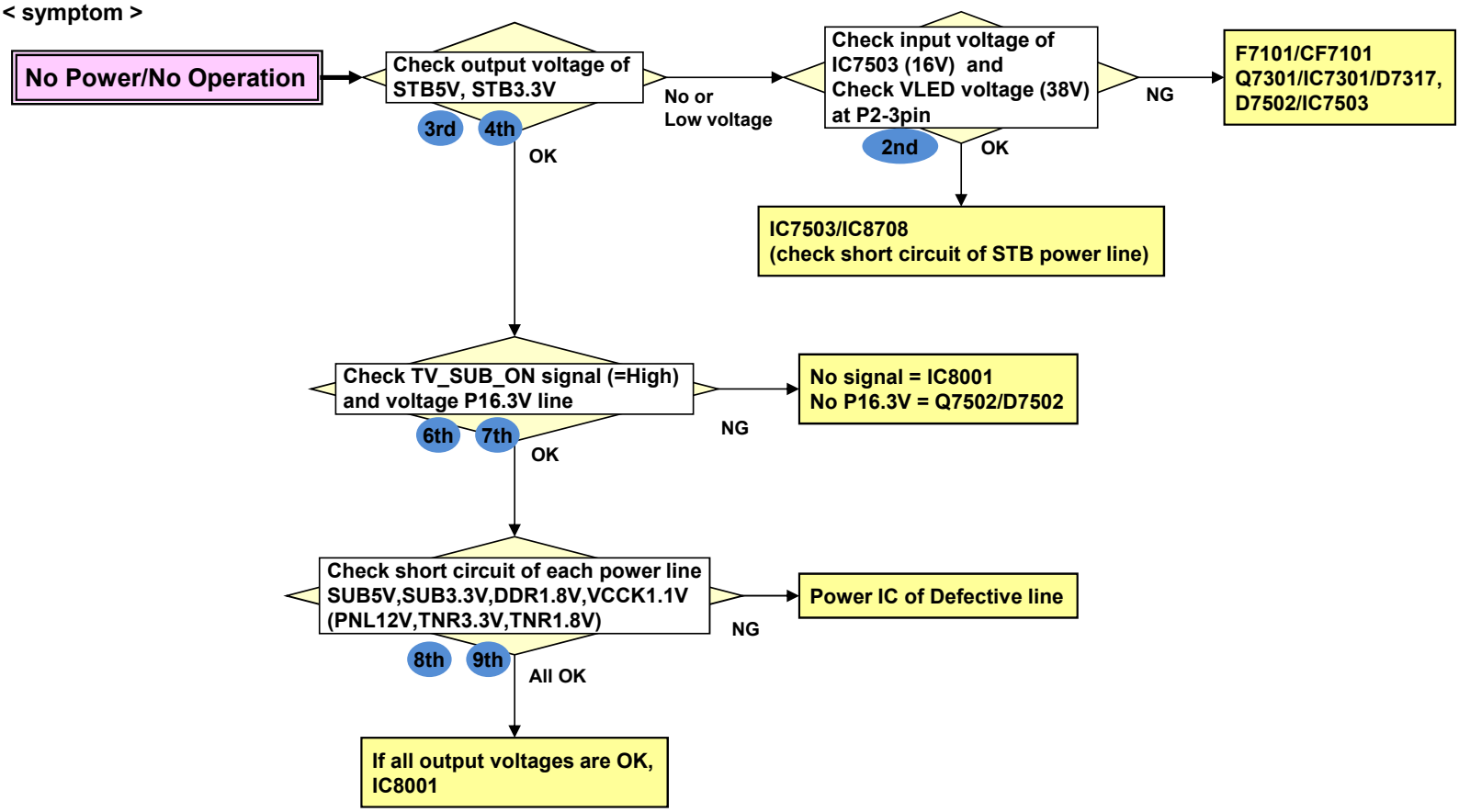
Power Supply Distribution (2/2)



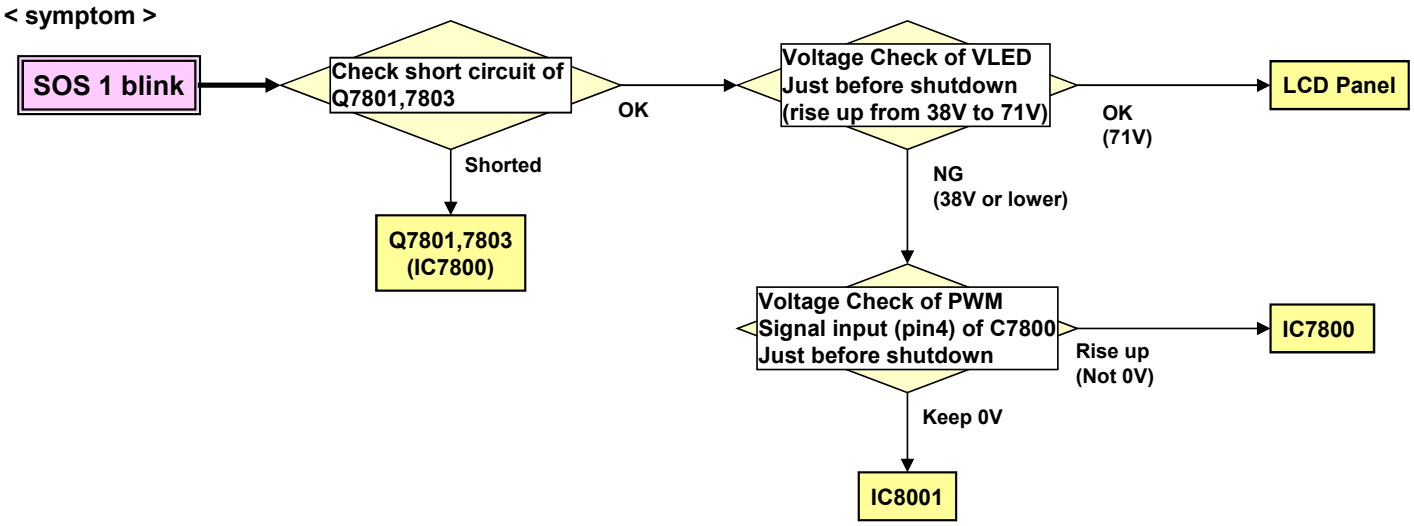
Troubleshoot of Power On Problem (1/2)

Check by power on sequence (from 1st to 13th)

< symptom >



Troubleshoot of Power On Problem (2/2)



Parts Change Note

SYMPTOM : No power / No Operation

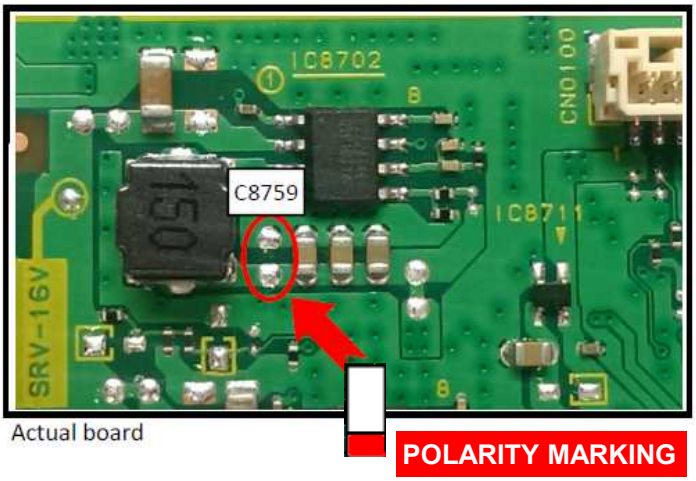
CAUSE : IC broken due to abnormal surge voltage

COUNTER : Add zener diode and surge absorber at SUB5V Vcc line to protect IC against any sudden power surge

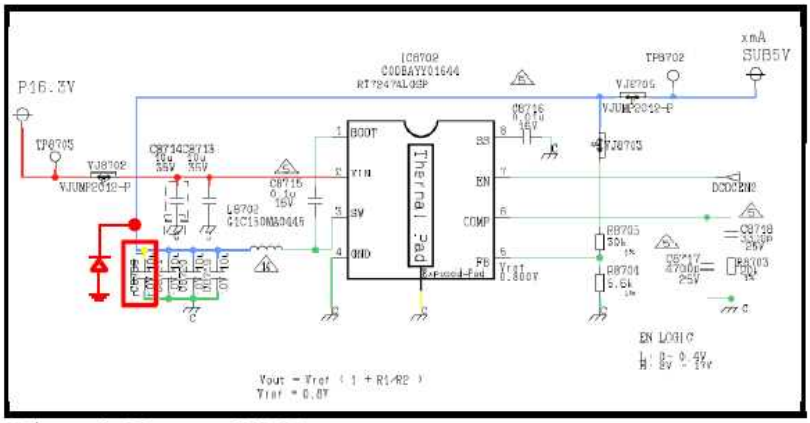
MEASURE

CR NO	BEFORE	AFTER	REMARK
C8759	NIL	DZ2J068M0L	Concern polarity
C8782	NIL	D4EDY5R5A038	No concern polarity
C8707	NIL	D4EDY5R5A038	No concern polarity

1. Add zener diode (DZ2J068M0L) to pad of C8759 (no use)

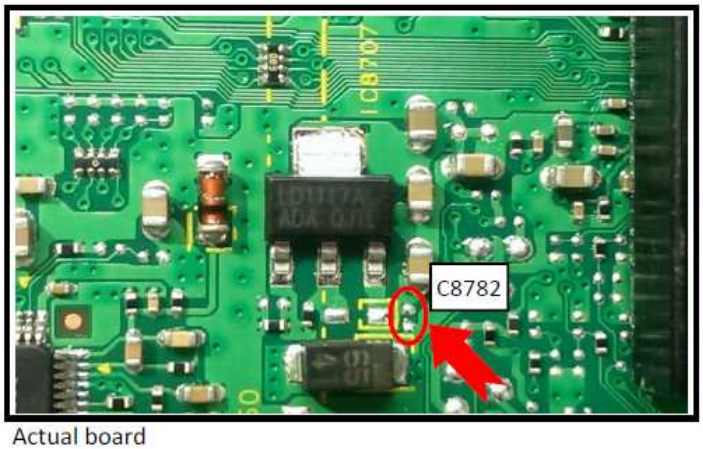


Actual board

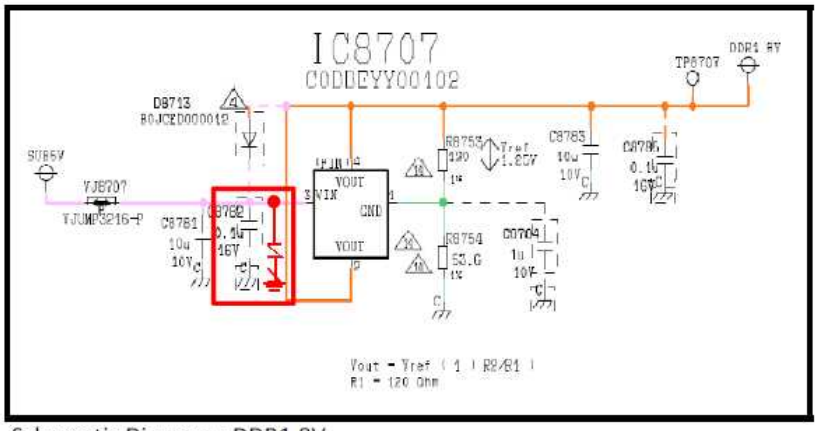


Schematic Diagram : SUB5V

2. Add surge absorber (D4EDY5R5A038) to pad of C8782 (no use)

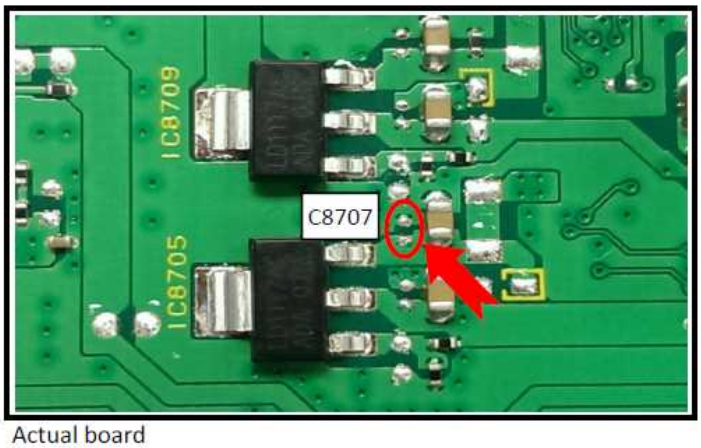


Actual board

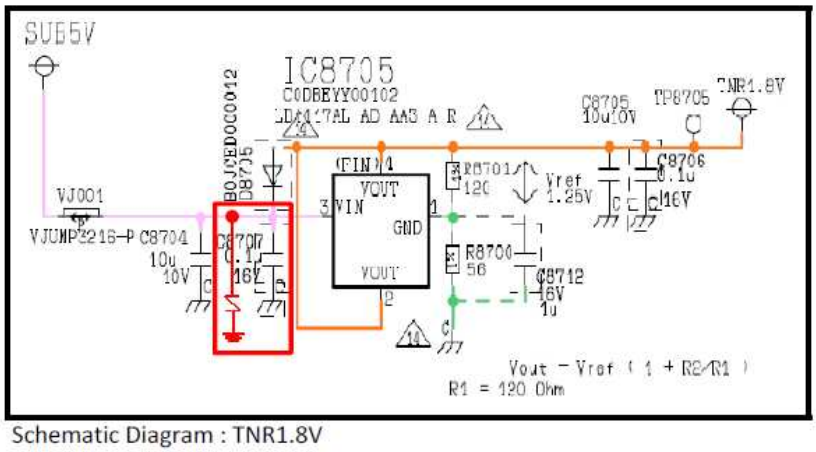


Schematic Diagram : DDR1.8V

3. Add surge absorber (D4EDY5R5A038) to pad of C8707 (no use)

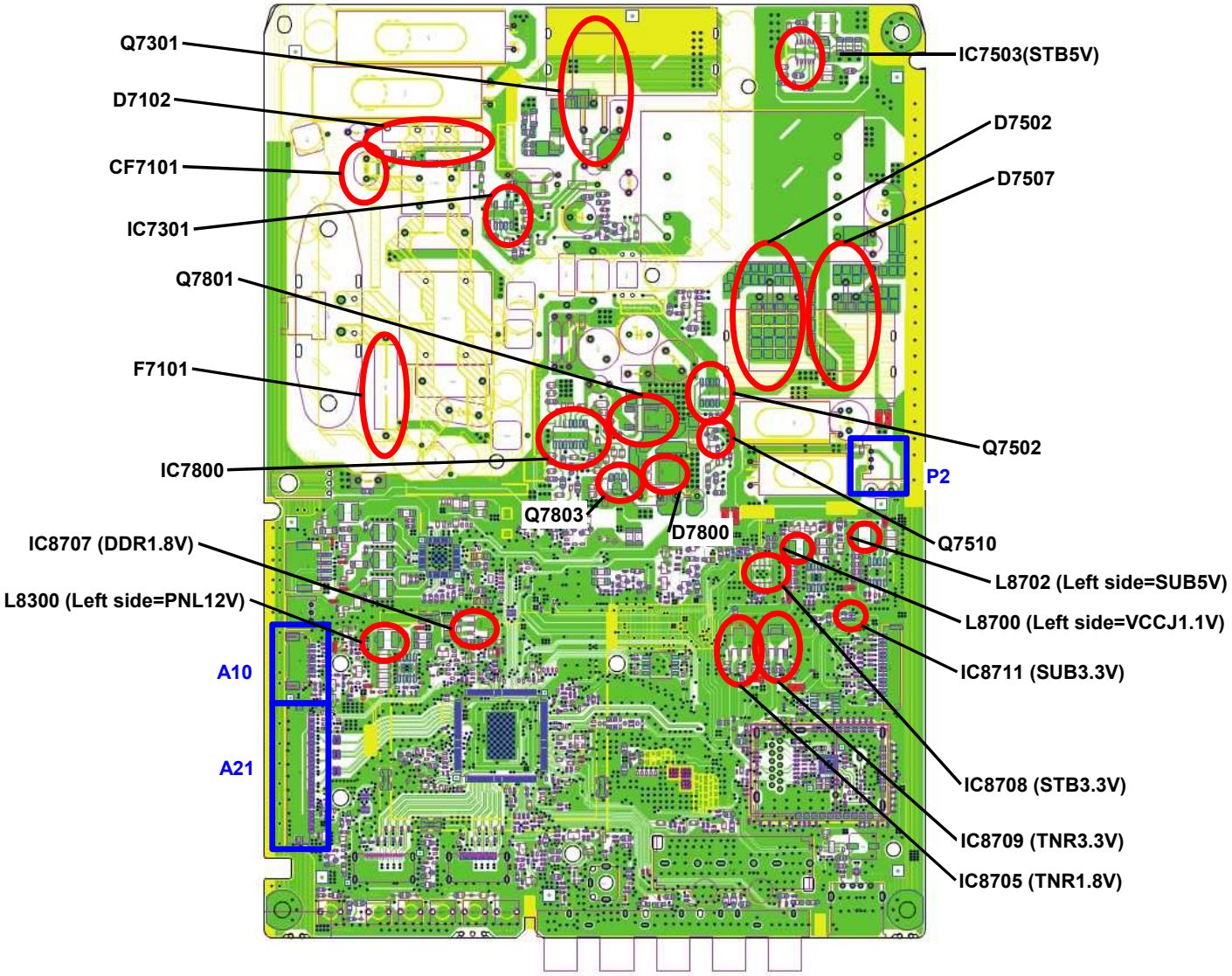


Actual board



Schematic Diagram : TNR1.8V

Parts Location



Revision History

Version	Issued/Revised date	Revised content
Ver. 1.0	11.Dec.2014	First version